DOCKET FILE COPY ORIGINAL

SHAINIS & PELTZMAN
COUNSELORS AT LAW
SUITE 500
1255 23RD STREET, N.W.
WASHINGTON, D.C. 20037
202-857-2946

AARON P. SHAINIS
202-857-2942

LEE J. PELTZMAN
202-857-2943

FACSIMILE
202-857-2900

June 24, 1993

Ms. Donna R. Searcy
Secretary
Federal Communications Commission
1919 M Street, N. W.
Washington, D. C. 20554

Re: MM No. 93-41
Triad Family Network, Inc.

Dear Ms. Searcy:

Transmitted herewith on behalf of Triad Family Network, Inc., are an original and six (6) copies of its Petition for Leave to Amend.

Should any questions arise concerning this matter, kindly communicate with the undersigned.

Very truly yours,

Lee J. Peltzman
Counsel for
TRIAD FAMILY NETWORK, INC.

Enclosures

No. of Copies rec'd 0+6
List A B C D E

C:\FILES\PELTZMAN.PLD\WBFJCOV.LT

Before The
FEDERAL COMMUNICATIONS COMMISSION
Washington, D. C. 20554

In re Applications of	)	MM No. 93-41
	)	
TRIAD FAMILY NETWORK, INC. Winston-Salem, North Carolina Channel 207C3	)	BPED-910227MD
	)	
POSITIVE ALTERNATIVE RADIO, INC. Asheboro, North Carolina Channel 207A	)	BPED-911119MC
	)	
For Construction Permit for a New Noncommercial Educational FM Station	)	

To: Administrative Law
Judge Joseph P. Gonzalez

PETITION FOR LEAVE TO AMEND

Triad Family Network, Inc. ("Triad"), pursuant to Section 73.3522 of the Commission's rules, hereby petitions for leave to amend its application. In support thereof, the following is submitted:

1. The applications of Triad and Positive Alternative Radio, Inc. ("Radio"), are presently mutually-exclusive in that prohibitive overlap of contours precludes grant of both applications. Radio has on June 2, 1993, sought leave to amend its application. The attached amendment of Triad proposes a change of site. As a result of this amendment and that filed earlier by Radio and modified in a filing being submitted contemporaneously with this petition, there will be no overlap of significant contours between the Radio and Triad applications. Commission precedent supports the acceptance of the instant amendment and

grant of this petition for leave to amend. No party will be prejudiced by Triad's amendment and both Triad's and Radio's applications may be granted. See Son Broadcasting, Inc., 92 FCC 2d 450 (Rev. Bd. 1982).

2. Additionally, Triad's amendment reports that it has expanded its Board of Directors by one, from three to four individuals.

3. It should be noted that the applicants today are filing a Settlement Agreement pursuant to Section 73.3525 of the Commission's rules, which provides for the amendment of both Triad's and Radio's applications. As such, both applications, as amended, may be granted. Accordingly, the public interest will be served by acceptance of the Triad amendment and grant of this Petition for Leave to Amend.

Respectfully submitted,

TRIAD FAMILY NETWORK, INC.

By: _____
Aaron P. Shainis

By: _____
Lee J. Peltzman
Its Attorneys

SHAINIS & PELTZMAN
1255 23rd Street, N. W. #500
Washington, D. C. 20037
202-857-2946

June 24, 1993

C:\FILES\PELTZMAN.PLD\WBFJ.PTA

Federal Communications Commission
Washington, D. C. 20554

FCC 340

Approved by OMB
3060-0034
Expires 11/30/94
See Page 23 for information regarding public burden estimate

APPLICATION FOR CONSTRUCTION PERMIT FOR NONCOMMERCIAL EDUCATIONAL BROADCAST STATION

(Carefully read instructions before filing form) Return only form to FCC

For Commission Use Only
File No.

Section I - GENERAL INFORMATION

1. Name of Applicant		
TRIAD FAMILY NETWORK, INC.		
Street Address or P.O. Box		
1249 North Trade Street		
City	State	ZIP Code
Winston-Salem	NC	27101
Telephone No. (Include Area Code)		
919 777 1008		

Send notices and communications to the following person at the address below:		
Name SHAINIS & PELTZMAN		
Street Address or P.O. Box		
1255 23rd Street, N. W. #500		
City	State	ZIP Code
Washington	DC	20037
Telephone No. (Include Area Code)		
202 857 2946		

2. This application is for: ☐ AM ☒ FM ☐ TV

(a) Channel No. or Frequency
207C3

(b) Principal Community	City	State
	Winston-Salem	NC

(c) Check one of the following boxes:

☐ Application for **NEW** station

☐ **MAJOR** change in licensed facilities; call sign: _____

☐ **MINOR** change in licensed facilities; call sign: _____

☐ **MAJOR** modification of construction permit; call sign: _____

File No. of construction permit: _____

☐ **MINOR** modification of construction permit; call sign: _____

File No. of construction permit: _____

☒ **AMENDMENT** to pending application; application file number: BPED-910227MD

NOTE: It is not necessary to use this form to amend a previously filed application. Should you do so, however, please submit only Section I and those other portions of the form that contain the amended information.

3. Is this application mutually exclusive with a renewal application? ☐ Yes ☒ No

If Yes, state:	Call letters	Community of License	
		City	State

SECTION VI – EQUAL EMPLOYMENT OPPORTUNITY PROGRAM

1. Does the applicant propose to employ five or more full-time employees? N/A ☐ Yes ☐ No

If Yes, the applicant must include an EEO program called for in the separate Broadcast Equal Employment Opportunity Program Report (FCC 396-A).

SECTION VII – CERTIFICATION

1. Has or will the applicant comply with the public notice requirements of 47 C.F.R. Section 73.3580? ☒ Yes ☐ No

2. The applicant certifies that, in the case of an individual applicant, he or she is not subject to a denial of federal benefits pursuant to Section 5301 of the Anti-Drug Abuse Act of 1988, 21 U.S.C. 862, or, in the case of a non-individual applicant (e.g., corporation, partnership or other unincorporated association), no party to the application is subject to a denial of federal benefits pursuant to that section. For the definition of a "party" for these purposes, see 47 C.F.R. 1.2002(b). ☒ Yes ☐ No

The APPLICANT hereby waives any claim to the use of any particular frequency as against the regulatory power of the United States because of the previous use of the same, whether by license or otherwise, and requests an authorization in accordance with this application. *(See Section 304 of the Communications Act of 1934, as amended.)*

The APPLICANT acknowledges that all the statements made in this application and attached exhibits are considered material representations, and that all exhibits are a material part hereof and incorporated herein.

The APPLICANT represents that this application is not filed for the purpose of impeding, obstructing, or delaying determination on any other application with which it may be in conflict.

In accordance with 47 C.F.R. Section 1.65, the APPLICANT has a continuing obligation to advise the Commission, through amendments, of any substantial and significant changes in information furnished.

WILLFUL FALSE STATEMENTS MADE ON THIS FORM ARE PUNISHABLE BY FINE AND/OR IMPRISONMENT (U.S. CODE, TITLE 18, SECTION 1001), AND/OR REVOCATION OF ANY STATION LICENSE OR CONSTRUCTION PERMIT (U.S. CODE, TITLE 47, SECTION 312(a)(1)), AND/OR FORFEITURE (U.S. CODE, TITLE 47, SECTION 503).

I certify that the statements in this application are true and correct to the best of my knowledge and belief, and are made in good faith.

Name of Applicant	Title
TRIAD FAMILY NETWORK, INC.	President
Signature: Philip T. Watson	Date: June 23, 1993

FCC NOTICE TO INDIVIDUALS REQUIRED BY THE PRIVACY ACT AND THE PAPERWORK REDUCTION ACT

The solicitation of personal information requested in this application is authorized by the Communications Act of 1934, as amended. The Commission will use the information provided in this form to determine whether grant of this application is in the public interest. In reaching that determination, or for law enforcement purposes, it may be necessary to refer personal information contained in this form to another government agency. In addition, all information provided in this form will be available for public inspection. If information requested on the form is not provided, processing of the application may be delayed or the application may be returned without action pursuant to the Commission's rules. Your response is required to obtain the requested authority.

Public reporting burden for this collection of information is estimated to vary from 78 to 302 hours 20 minutes with an average of 171 hours 36 minutes per response. These estimates includes the time for reviewing instructions, searching existing data sources, gathering and maintaining the data needed, and completing and reviewing the collection of information. Comments regarding this burden estimate or any other aspect of this collection of information, including suggestions for reducing the burden, can be sent to the Federal Communications Commission, Information Resources Branch, Room 416, Paperwork Reduction Project, Washington, D.C. 20554, and to the Office of Management and Budget, Paperwork Reduction Project (3060-0034), Washington, D.C. 20503.

THE FOREGOING NOTICE IS REQUIRED BY THE PRIVACY ACT OF 1974, P.L. 93-579, DECEMBER 31, 1974, 5 U.S.C. 552a(e)(3), AND THE PAPERWORK REDUCTION ACT OF 1980, P.L. 96-511, DECEMBER 11, 1980, 44 U.S.C. 3507.

Section V-B - FM BROADCAST ENGINEERING DATA	FOR COMMISSION USE ONLY File No. _____ ASB Referral Date _____ Referred by _____

Name of Applicant

TRIAD FAMILY NETWORK, INCORPORATED

Call letters *(if issued)*	Is this application being filed in response to a window? ☐ Yes ■ No
NEW	If Yes, specify closing date: n/a

Purpose of Application: *(check appropriate box(es))*

- ■ Construct a new (main) facility
- ☐ Construct a new auxiliary facility
- ☐ Modify existing construction permit for main facility
- ☐ Modify existing construction permit for auxiliary facility
- ☐ Modify licensed main facility
- ☐ Modify licensed auxiliary facility

If purpose is to modify, indicate below the nature of change(s) and specify the file number(s) of the authorizations affected.

- ■ Antenna supporting-structure height
- ■ Effective radiated power
- ■ Antenna height above average terrain
- ☐ Frequency
- ■ Antenna location
- ☐ Class
- ☐ Main Studio location
- ☐ Other *(Summarize briefly)*

File Number(s) BPED-910227MD ** HEARING MODIFICATION & SETTLEMENT ** (Docket 93-41)

1. Allocation:

Class *(check only one box below)*

[redacted]

SECTION V-B – FM BROADCAST ENGINEERING DATA (Page 2)

4. Does the application propose to correct previous site coordinates? ☐ Yes ■ No
If Yes, list old coordinates.

Latitude ° ' "	Longitude ° ' "

5. Has the FAA been notified of the proposed construction? ☐ Yes ■ No
If Yes, give date and office where notice was filed and attach as an Exhibit a copy of FAA determination, if available. ** Existing Antenna Structure ** Exhibit No. ~~ ~~

Date _____ Office where filed _____

6. List all landing areas within 8 km of antenna site. Specify distance and bearing from structure to nearest point of the nearest runway.

	Landing Area	Distance (km)	Bearing (degrees True)
(a)	none		
(b)			

7. (a) Elevation: *(to the nearest meter)*

(1) of site above mean sea level; 292 meters

(2) of the top of supporting structure above ground (including antenna, all other appurtenances, and lighting, if any); and 96 meters

(3) of the top of supporting structure above mean sea level [(aX1) + (aX2)] 388 meters

(b) Height of radiation center: *(to the nearest meter)* H = Horizontal; V = Vertical

(1) above ground 96 meters (H
96 meters (V

(2) above mean sea level [(aX1) + (bX1)] 388 meters (H
388 meters (V

(3) above average terrain 129 meters (H
129 meters (V

8. Attach as an Exhibit sketch(es) of the supporting structure, labelling all elevations required in Question 7 above, except item 7(bX3). If mounted on an AM directional-array element, specify heights and orientations of all array towers, as well as location of FM radiator. Exhibit No. 1

9. Effective Radiated Power:
(a) ERP in the horizontal plane 2.50 kw (H*) 2.50 kw (V*)

(b) Is beam tilt proposed? ☐ Yes ☒ N

If Yes, specify maximum ERP in the plane of the tilted beam, and attach as an Exhibit a vertical elevational plot of radiated field. Exhibit No. ~~ ~~
_____ kw (H*) _____ kw (V*)

*Polarization

10. Is a directional antenna proposed? ■ Yes ☐ No

If Yes, attach as an Exhibit a statement with all data specified in 47 C.F.R. Section 73.316, including plot(s) and tabulations of horizontally and vertically polarized radiated components in terms of relative field. Exhibit No. 2

11. Will the main studio be located within the 70 dBu or 3.16 mV/m contour? ■ Yes ☐ No

If No, attach as an Exhibit justification pursuant to 47 C.F.R. Section 73.1125. Exhibit No. ~~ /~~

12. Are there: (a) within 60 meters of the proposed antenna, any proposed or authorized FM or TV transmitters, or any nonbroadcast *(except citizens band or amateur)* radio stations; or (b) within the blanketing contour, any established commercial or government receiving stations, cable head-end facilities, or populated areas; or (c) within ten (10) kilometers of the proposed antenna, any proposed or authorized FM or TV transmitters which may produce receiver-induced intermodulation interference? ■ Yes ☐ No

If Yes, attach as an Exhibit a description of any expected, undesired effects of operations and remedial steps to be pursued if necessary, and a statement accepting full responsibility for the elimination of any objectionable interference (including that caused by receiver-induced or other types of modulation) to facilities in existence or authorized or to radio receivers in use prior to grant of this application. *(See 47 C.F.R. Sections 73.315(b), 73.316(d) and 73.318.)* Exhibit No. 3

13. Attach as an Exhibit a 7.5 minute series U.S. Geological Survey topographic quadrangle map that shows clearly, legibly, and accurately, the location of the proposed transmitting antenna. This map must comply with the requirements set forth in Instruction D for Section V. Further, the map must clearly and legibly display the original printed contour lines and data as well as latitude and longitude markings, and must bear a scale of distance in kilometers. Exhibit No. 4

14. Attach as an Exhibit *(name the source)* a map which shows clearly, legibly, and accurately, and with the original printed latitude and longitude markings and a scale of distance in kilometers: Exhibit No. 5

USGS 1:100 000 Topographic Quadrangles

(a) the proposed transmitter location, and the radials along with profile graphs have been prepared;

(b) the 1 mV/m predicted contour and, for noncommercial educational applicants applying on a commercial channel, the 3.16 mV/m contour; and

(c) the legal boundaries of the principal community to be served.

15. Specify area in square kilometers (1 sq. mi. = 2.59 sq. km.) and population (latest census) within the predicted 1 mV/m contour.

Area 1145.0 sq. km. Population 293,129

16. Attach as an Exhibit a map *(Sectional Aeronautical charts where obtainable)* showing the present and proposed 1 mV/m (60 dbu) contours. Exhibit No. 5

Enter the following from Exhibit above:

Gain Area 1145.0 sq. ~~mi~~ km

Loss Area 0.0 sq. ~~mi~~ km

Percent change (gain area plus loss area as percentage of present area) 100.0% %.
If 50% or more this constitutes a major change. Indicate in question 2(c), Section I, accordingly.

** note - this is an application to resolve a hearing.

17. For an application involving an auxiliary facility only, attach as an Exhibit a map *(Sectional Aeronautical Chart or equivalent)* that shows clearly, legibly, and accurately, and with latitude and longitude markings and a scale of distance in kilometers: Exhibit No.

(a) the proposed auxiliary 1 mV/m contour; and

(b) the 1 mV/m contour of the licensed main facility for which the applied-for facility will be auxiliary. Also specify the file number of the license. See 47 C.F.R. Section 73.1675. (File No.: n / a)

18. Terrain and coverage data *(to be calculated in accordance with 47 C.F.R. Section 73.313).*

Source of terrain data: *(check only one box below)*

■ Linearly interpolated 30-second database ☐ 7.5 minute topographic map

(Source: Dataworld - NGDC)

☐ Other *(briefly summarize)*

Radial bearing (degrees True)	Height of radiation center above average elevation of radial from 3 to 16 km (meters)	Predicted Distances to the 1 mV/m contour (kilometers)
0	118	10.7
45	108	12.3
90	120	18.0
135	127	23.4
180	140	26.0
225	151	28.1
270	135	18.1
315	132	11.9

Allocation Studies

(See Subpart C of 47 C.F.R. Part 73)

19. Is the proposed antenna location within 320 kilometers (199 miles) of the common border between the United States and Mexico? ☐ Yes ■ No

If Yes, attach as an Exhibit a showing of compliance with all provisions of the Agreement between the United States of America and the United Mexican States concerning Frequency Modulation Broadcasting in the 88 to 108 MHz band. Exhibit No.

20. Is the proposed antenna location within 320 kilometers of the common border between the United States and Canada? ☐ Yes ■ No

If Yes, attach as an Exhibit a showing of compliance with all provisions of the Working Agreement for Allocation of FM Broadcasting Stations on Channels 201-300 under The Canada-United States FM Agreement of 1947. Exhibit No.

21. If the proposed operation is for a channel in the range from channel 201 through 220 (88.1 through 91.9 MHz), or if this proposed operation is for a class D station in the range from Channel 221 through 300 (92.1 through 107.9 MHz), attach as an Exhibit a complete allocation study to establish the lack of prohibited overlap of contours with other U.S. stations. The allocation study should include the following: Exhibit No. 6

(a) The normally protected interference-free and the interfering contours for the proposed operation along all azimuths.
(b) Complete normally protected interference-free contours of all other proposals and existing stations to which objectionable interference would be caused.
(c) Interfering contours over pertinent arcs of all other proposals and existing stations from which

SECTION V-B – FM BROADCAST ENGINEERING DATA (Page 6)

(e) If authorization pursuant to 47 C.F.R. Section 73.215 is requested, attach as an Exhibit a complete engineering study to establish the lack of prohibited overlap of contours involving affected stations. The engineering study must include the following:

Exhibit No.

(1) Protected and interfering contours, in all directions (360°), for the proposed operation.
(2) Protected and interfering contours, over pertinent arcs, of all short-spaced assignments, applications and allotments, including a plot showing each transmitter location, with identifying call letters or file numbers, and indication of whether facility is operating or proposed. For vacant allotments, use the reference coordinates as transmitter location.
(3) When necessary to show more detail, an additional allocation study utilizing a map with a larger scale to clearly show prohibited overlap will not occur.
(4) A scale of kilometers and properly labeled longitude and latitude lines, shown across the entire exhibit(s). Sufficient lines should be shown so that the location of the sites may be verified.
(5) The official title(s) of the map(s) used in the exhibits(s).

24. Is the proposed station for a channel in the range from Channel 201 to 220 (88.1 through 91.9 MHz) and the proposed antenna location within the distance to an affected TV Channel 6 station(s) as defined in 47 C.F.R. Section 73.525?

■ Yes ☐ No

If Yes, attach as an Exhibit either a TV Channel 6 agreement letter dated and signed by both parties or a map and an engineering statement with calculations demonstrating compliance with 47 C.F.R. Section 73.525 for each affected TV Channel 6 station.

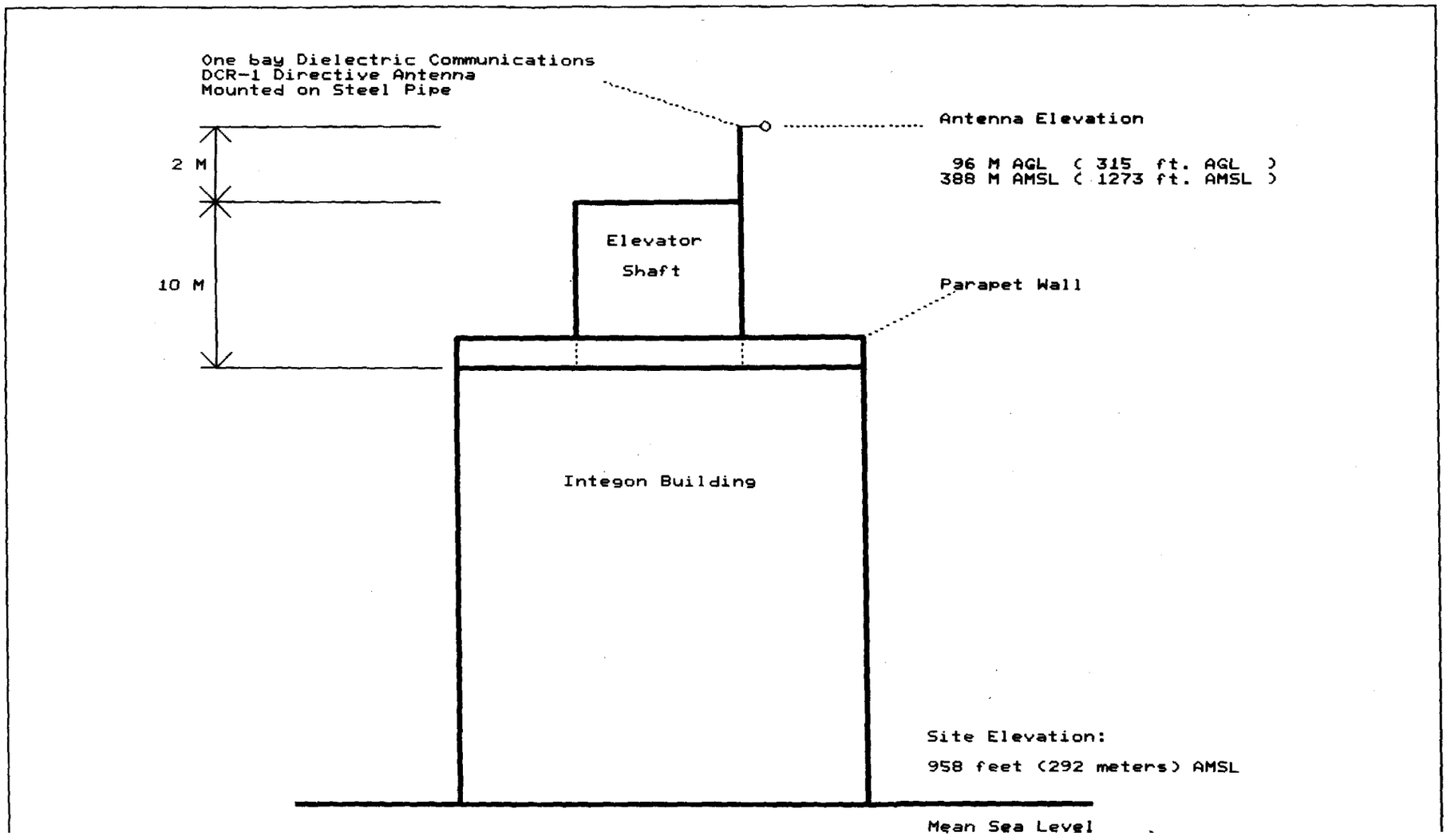
Exhibit No. 6

25. Is the proposed station for a channel in the range from Channel 221 to 300 (92.1-107.9 MHz)?

☐ Yes ■ No

If Yes, attach as an Exhibit information required in 1/. *(Except for Class D (secondary) proposals.)*

Exhibit No.


One bay Dielectric Communications
DCR-1 Directive Antenna
Mounted on Steel Pipe
Antenna Elevation
96 M AGL (315 ft. AGL)
388 M AMSL (1273 ft. AMSL)
2 M
10 M
Elevator
Shaft
Parapet Wall
Integon Building
Site Elevation:
958 feet (292 meters) AMSL
Mean Sea Level

Tabulated Relative Field Directional Antenna Pattern

Title: Triad Family Network
ERP: 2.5 kW
HAMSL: 388.0 m
Latitude: 36-05-56
Longitude: 80-15-00

Az. deg	HAAT (m)	Rel fld	ERP (kW)	Az. deg	HAAT (m)	Rel fld	ERP (kW)	Az. deg	HAAT (m)	Rel fld	ERP (kW)	Az. deg	HAAT (m)	Rel fld	ERP (kW)
0	118	.178	.079	45	108	.26	.169	90	120	.502	.631	135	127	.796	1.58
1	118	.178	.079	46	109	.265	.175	91	120	.509	.646	136	129	.796	1.58
2	118	.178	.079	47	110	.269	.181	92	119	.515	.662	137	130	.796	1.58
3	118	.178	.079	48	110	.274	.187	93	119	.521	.678	138	132	.796	1.58
4	117	.178	.079	49	110	.278	.193	94	118	.527	.694	139	132	.796	1.58
5	117	.178	.079	50	110	.283	.2	95	117	.533	.71	140	132	.796	1.58
6	117	.178	.079	51	111	.29	.21	96	117	.539	.727	141	132	.796	1.58
7	116	.178	.079	52	111	.297	.221	97	117	.545	.743	142	131	.796	1.58
8	113	.178	.079	53	112	.304	.232	98	118	.551	.76	143	131	.796	1.58
9	111	.178	.079	54	112	.312	.243	99	118	.558	.777	144	131	.796	1.58
10	110	.178	.079	55	113	.319	.255	100	118	.564	.794	145	131	.796	1.58
11	109	.179	.08	56	114	.326	.266	101	119	.571	.814	146	132	.796	1.58
12	108	.18	.081	57	115	.334	.278	102	119	.577	.834	147	133	.796	1.58
13	106	.181	.082	58	115	.341	.291	103	119	.584	.854	148	135	.796	1.58
14	104	.182	.083	59	116	.348	.303	104	120	.591	.874	149	136	.796	1.58
15	102	.184	.084	60	116	.356	.316	105	120	.598	.894	150	137	.796	1.58
16	101	.185	.085	61	116	.365	.333	106	120	.605	.915	151	136	.796	1.58
17	101	.186	.086	62	117	.374	.35	107	119	.612	.936	152	137	.796	1.58
18	103	.187	.087	63	117	.383	.367	108	119	.619	.957	153	137	.796	1.58
19	106	.188	.088	64	118	.392	.385	109	119	.626	.978	154	136	.796	1.58
20	109	.189	.089	65	119	.402	.403	110	119	.632	1	155	136	.796	1.58
21	111	.191	.091	66	120	.411	.422	111	120	.64	1.02	156	136	.796	1.58
22	112	.193	.094	67	120	.42	.441	112	121	.648	1.05	157	136	.796	1.58
23	113	.196	.096	68	119	.429	.461	113	122	.656	1.07	158	136	.796	1.58
24	114	.198	.098	69	119	.439	.481	114	123	.663	1.1	159	136	.796	1.58
25	113	.2	.1	70	118	.448	.501	115	123	.671	1.13	160	137	.796	1.58
26	112	.203	.103	71	117	.453	.513	116	123	.679	1.15	161	137	.796	1.58
27	111	.205	.105	72	116	.459	.526	117	123	.686	1.18	162	136	.796	1.58
28	109	.207	.107	73	116	.464	.539	118	123	.694	1.2	163	136	.796	1.58
29	108	.21	.11	74	116	.47	.551	119	123	.702	1.23	164	137	.796	1.58
30	108	.212	.112	75	116	.475	.564	120	123	.71	1.26	165	138	.796	1.58
31	108	.214	.115	76	117	.481	.577	121	124	.718	1.29	166	138	.796	1.58
32	108	.217	.118	77	117	.486	.59	122	124	.727	1.32	167	137	.796	1.58
33	108	.22	.121	78	118	.491	.604	123	124	.736	1.35	168	137	.796	1.58
34	108	.222	.123	79	117	.497	.617	124	124	.744	1.38	169	137	.796	1.58
35	107	.225	.126	80	117	.502	.631	125	124	.753	1.42	170	138	.796	1.58
36	107	.227	.129	81	117	.502	.631	126	124	.762	1.45	171	138	.806	1.62
37	107	.23	.132	82	118	.502	.631	127	125	.77	1.48	172	138	.816	1.66
38	107	.233	.135	83	119	.502	.631	128	125	.779	1.52	173	138	.825	1.7
39	107	.235	.138	84	119	.502	.631	129	125	.788	1.55	174	138	.835	1.74
40	105	.238	.141	85	120	.502	.631	130	125	.796	1.58	175	139	.845	1.78
41	104	.242	.147	86	120	.502	.631	131	125	.796	1.58	176	141	.855	1.83
42	104	.247	.152	87	120	.502	.631	132	125	.796	1.58	177	142	.864	1.87
43	105	.251	.158	88	120	.502	.631	133	125	.796	1.58	178	141	.874	1.91
44	106	.256	.163	89	120	.502	.631	134	126	.796	1.58	179	141	.884	1.95

Tabulated Relative Field Directional Antenna Pattern

Title: Triad Family Network
ERP: 2.5 kW
HAMSL: 388.0 m
Latitude: 36-05-56
Longitude: 80-15-00

Az. deg	HAAT (m)	Rel fld	ERP (kW)	Az. deg	HAAT (m)	Rel fld	ERP (kW)	Az. deg	HAAT (m)	Rel fld	ERP (kW)	Az. deg	HAAT (m)	Rel fld	ERP (kW)
180	140	.893	2	225	151	1	2.51	270	135	.448	.501	315	132	.2	.1
181	141	.904	2.04	226	150	1	2.51	271	135	.439	.481	316	132	.198	.098
182	141	.915	2.09	227	150	1	2.51	272	135	.429	.461	317	132	.196	.096
183	142	.926	2.14	228	149	1	2.51	273	136	.42	.441	318	130	.193	.094
184	143	.937	2.19	229	149	1	2.51	274	136	.411	.422	319	129	.191	.091
185	143	.948	2.25	230	149	1	2.51	275	137	.402	.403	320	128	.189	.089
186	144	.959	2.3	231	149	.991	2.46	276	138	.392	.385	321	127	.188	.088
187	144	.97	2.35	232	148	.981	2.4	277	138	.383	.367	322	127	.187	.087
188	145	.981	2.4	233	148	.97	2.35	278	138	.374	.35	323	127	.186	.086
189	146	.991	2.46	234	148	.959	2.3	279	138	.365	.333	324	126	.185	.085
190	148	1	2.51	235	148	.948	2.25	280	138	.356	.316	325	125	.184	.084
191	148	1	2.51	236	148	.937	2.19	281	138	.348	.303	326	124	.182	.083
192	149	1	2.51	237	148	.926	2.14	282	138	.341	.291	327	123	.181	.082
193	149	1	2.51	238	147	.915	2.09	283	138	.334	.278	328	123	.18	.081
194	150	1	2.51	239	147	.904	2.04	284	137	.326	.266	329	123	.179	.08
195	150	1	2.51	240	147	.893	2	285	136	.319	.255	330	122	.178	.079
196	151	1	2.51	241	147	.875	1.91	286	136	.312	.243	331	122	.178	.079
197	152	1	2.51	242	147	.857	1.83	287	136	.304	.232	332	121	.178	.079
198	153	1	2.51	243	148	.838	1.76	288	136	.297	.221	333	121	.178	.079
199	154	1	2.51	244	148	.82	1.68	289	135	.29	.21	334	121	.178	.079
200	153	1	2.51	245	148	.801	1.61	290	135	.283	.2	335	122	.178	.079
201	152	1	2.51	246	148	.783	1.53	291	135	.278	.193	336	122	.178	.079
202	151	1	2.51	247	149	.765	1.46	292	135	.274	.187	337	121	.178	.079
203	151	1	2.51	248	148	.746	1.39	293	136	.269	.181	338	120	.178	.079

Directional Antenna Statement (73.316 showing)

TRIAD FAMILY NETWORK, INCORPORATED
NEW FM, WINSTON-SALEM, NC

TFN is specifying a Dielectric Communications DCR-1-(DA) directional antenna. This antenna is well known to the Commission. Directivity is obtained with fixed reradiators on an antenna model and supporting structure (in this case a steel pipe). The antenna is fully custom per 73.316(c)(1).

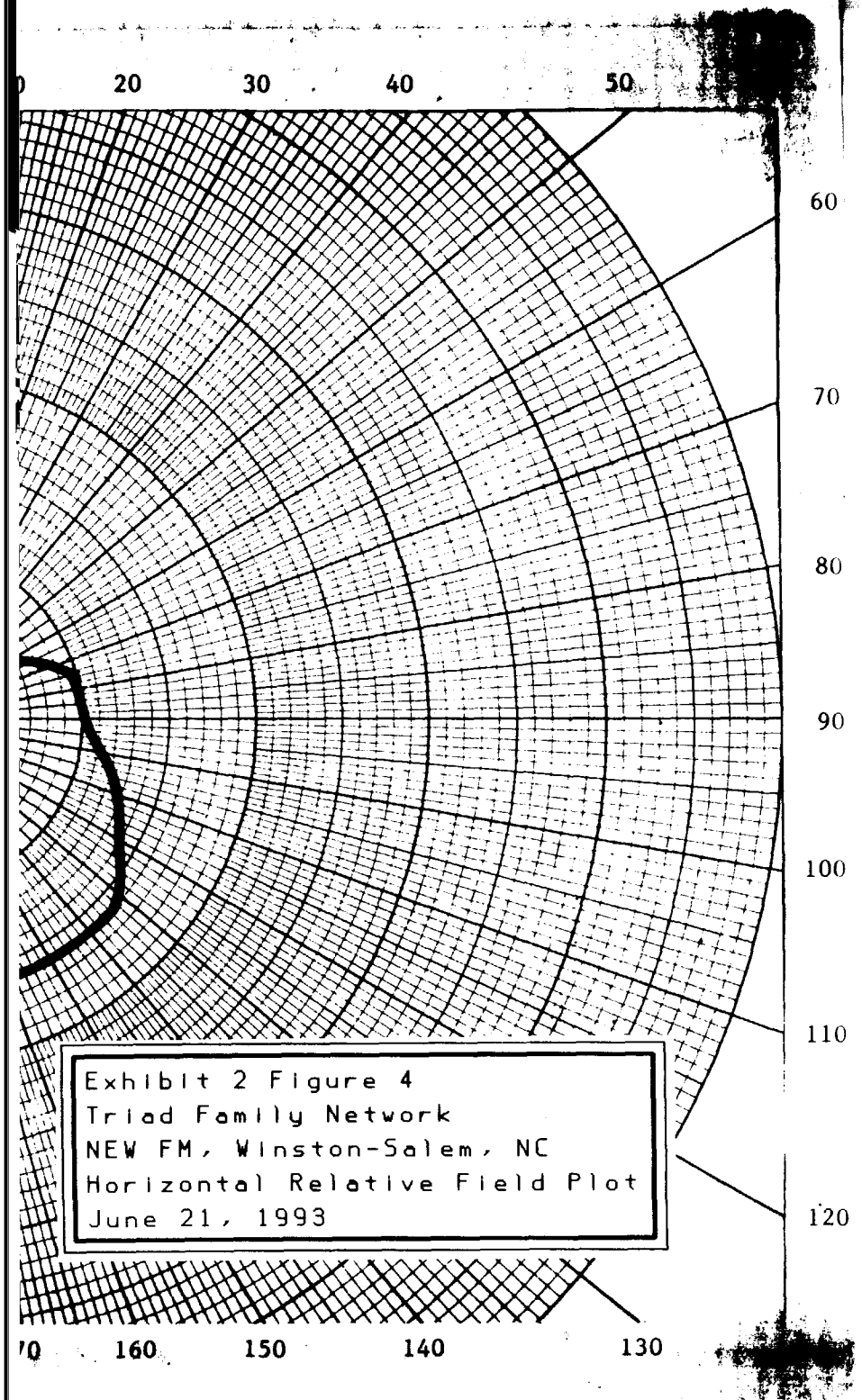
Pages 1 and 2 previous are tabulated relative field and power values in one-degree intervals. Pages 4 and 5 contain required horizontal plane and conical elevation plots. Undesirable "underhanging" lobes do not exist. As the antenna is asymmetrical all data is presented "as installed".

No other directional antennas are mounted within the antenna's the antenna's aperture. Mounting will be within the manufacturer's specified horizontal clearance.

When programme tests are sought, a TFN will supply a antenna proof of performance. A licensed surveyor shall also certify the antenna's orientation.

PATTERN EXTREMA:

0°	0.079 kW	0.178 rel. fld.	(minima)
180°	2.500 kW	1.000 rel fld	(maxima)


20
30
40
50
60
70
80
90
100
110
120
130
140
150
160
Exhibit 2 Figure 4
Triad Family Network
NEW FM, Winston-Salem, NC
Horizontal Relative Field Plot
June 21, 1993

DIELECTRIC COMMUNICATIONS
A UNIT OF GENERAL SIGNAL

Exhibit 2 Figure 5
Triad Family Network
New FM, Winston-Salem, NC

Proposal Number: _____ Date: NOVEMBER 5, 1991

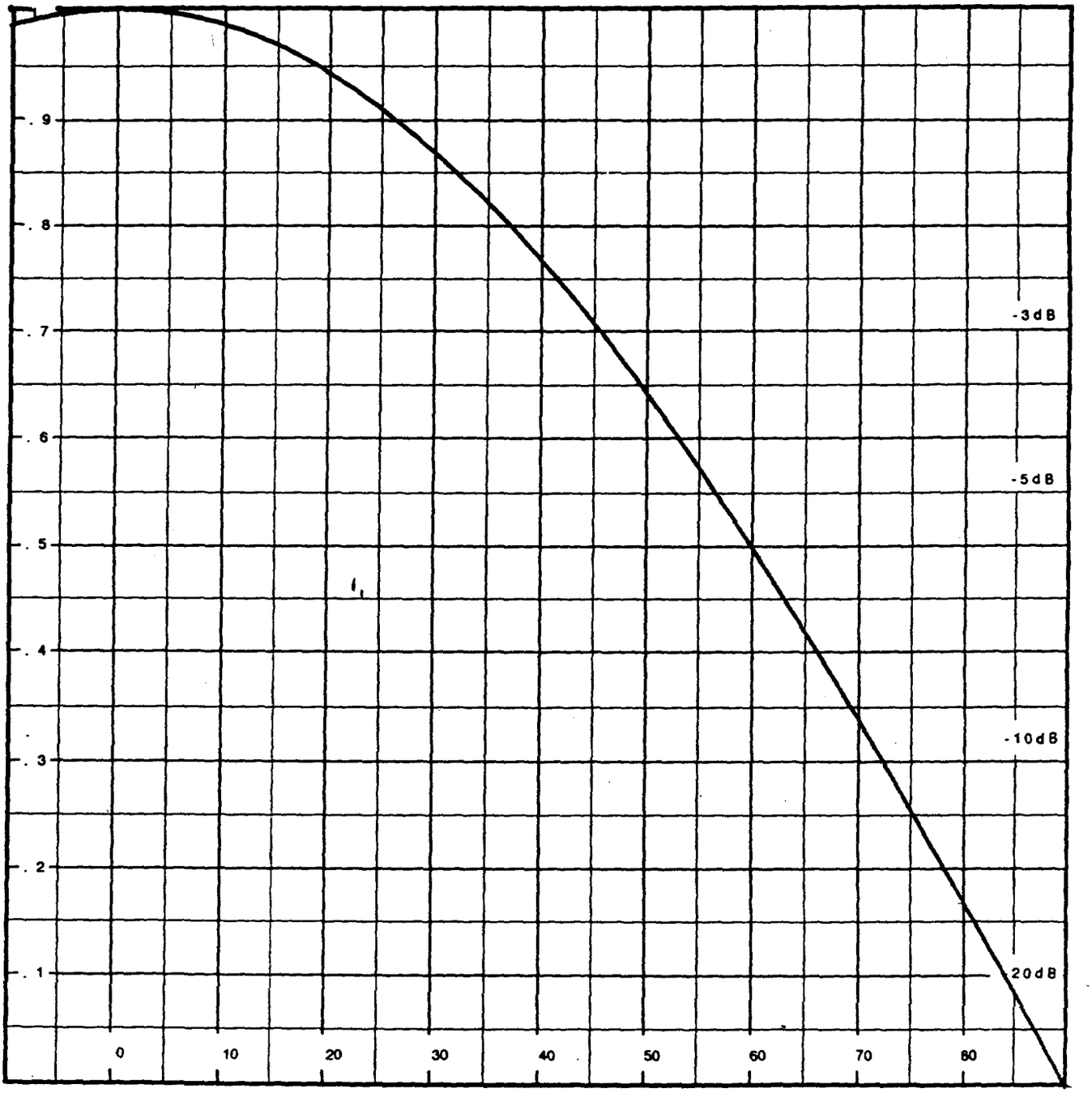
Call Letters: _____ Channel: _____ Antenna Type: DCR (1 BAY)

Location: _____ Customer: _____

VERTICAL PATTERN

RMS Gain at Main Lobe: .46 -3.37 d B Beam Tilt: 0 degrees Frequency: FM MHz

RMS Gain at Horizontal: .46 -3.37 d B Calculated: ✓ Measured: ___ Drawing #: ELEV-1



DEGREES BELOW HORIZONTAL

NOTE: FROM -85 TO -90 DEGREES, MINIMUM RELATIVE FIELD IS 6% (PER ACTUAL MEASURED PATTERN).

RAYMOND, MAINE
Tel.: 207-655-4555
FAX: 207-655-4669

AJS Form-05

Exhibit 3
June 18, 1993

Intermodulation Interference Statement
Occupational and Casual NIER Statement

TRIAD FAMILY NETWORK, INCORPORATED
NEW FM, WINSTON-SALEM, NC

TFN propose to mount a single bay of a Dielectric Communications DCR-1 directional antenna atop the Integon Building in downtown Winston-Salem. Specifically, the antenna would be mounted on the elevator shaft (see Exhibit 1) approximately 40 feet from the building deck. The elevator shaft is the site for numerous non-broadcast tranceivers. These facilities are greatly removed in frequency (eg. 450 mc business radios, trunked and wireline cellular systems, and point to multipoint paging. TFN's proposal at 89.3 mc is sufficiently removed in frequency from other tenants. No intermodulation is expected. Should any noxious effects arise, TFN certifies that it will take any necessary actions to eliminate interference.

The blanketing contour is located (assuming a 2.5 kw H&V isotropic radiator) at 0.394 * sqrt(5.0 kw) or 880 meters from the antenna. Less than 115 dBuV reaches the ground if the antenna's cosine elevation distribution is analysed. Blanketing is confined to a very small commercial district near the Integon building. TFN will undertake to correct blanketing interference complaints that arise.

An analysis of potential casual and occupational exposure to the

Intermodulation Interference Statement
Occupational and Casual NIER Statement

TRIAD FAMILY NETWORK, INCORPORATED
NEW FM, WINSTON-SALEM, NC

wall is 60 degrees. (1.25 kW H & V). Here the power is 1250 watts and the distance 6 meters.

As this proposed site will share with other transmitting tenants, TFN will reduce power or cease emissions when work is required in the bio-hazard zone. Agreements with all tenants shall be reduced to writing in compliance with occupational exposure standards. Also, power will be reduced or emissions ceased whenever work on elevator systems is required. An absorbed dose field survey may be undertaken to more accurately delineate the zone of biological hazard from all tenants. Warning signs will be posted at roof entrances.

The Integon building's roof entrances have fusible thermal links and/or solenoid operated devices per the Forsyth County building codes. These systems open the roof doors if fire is detected. Manual operation is also possible. However, these doors are not public access points and can reasonably be expected to prevent public access (including tresspassers). Normal activities inside the Integon building will not expose the general public (or building personnel) to radiofrequency biological hazards.

TFN will comply with local building codes and pertinent occupational safety requirements should its proposal be granted.

WINSTON-SALEM EAST, N. C.
36080-A2-TF-024

1950
PHOTOREVISED 1987
DMA 4956 II SW-SERIES V842

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

4956 III NE (RURAL HALL)

80°15′

36°07′30″

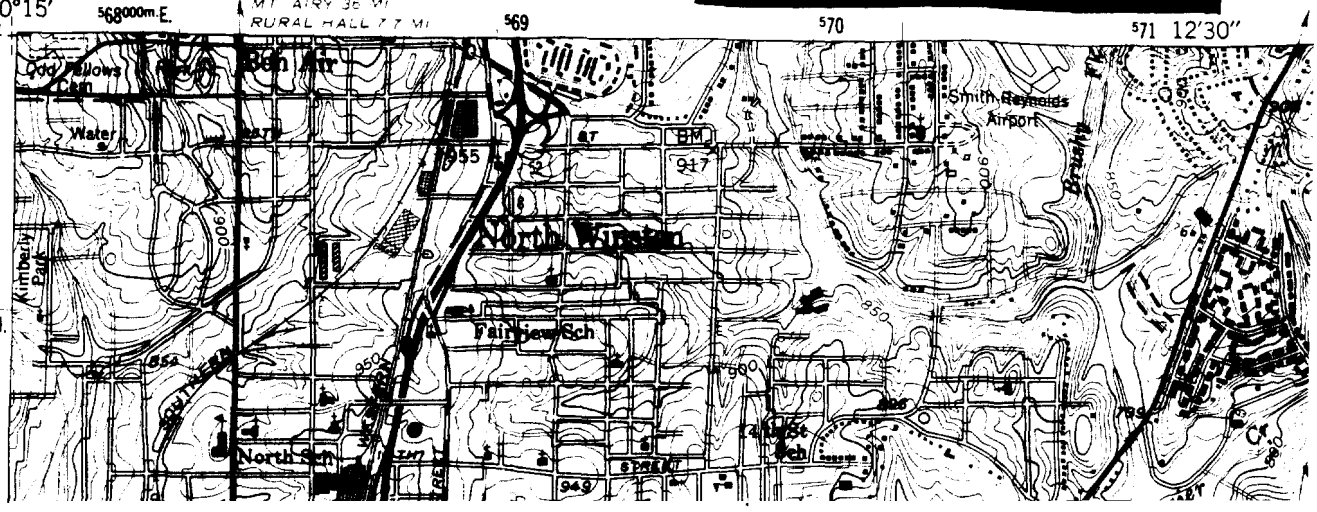
568000m.E.

MT AIRY 36 MI
RURAL HALL 7.7 MI

569

570

571 12′30″

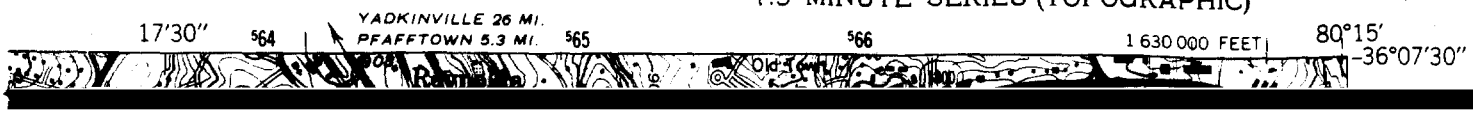


WINSTON-SALEM WEST QUADRANGLE

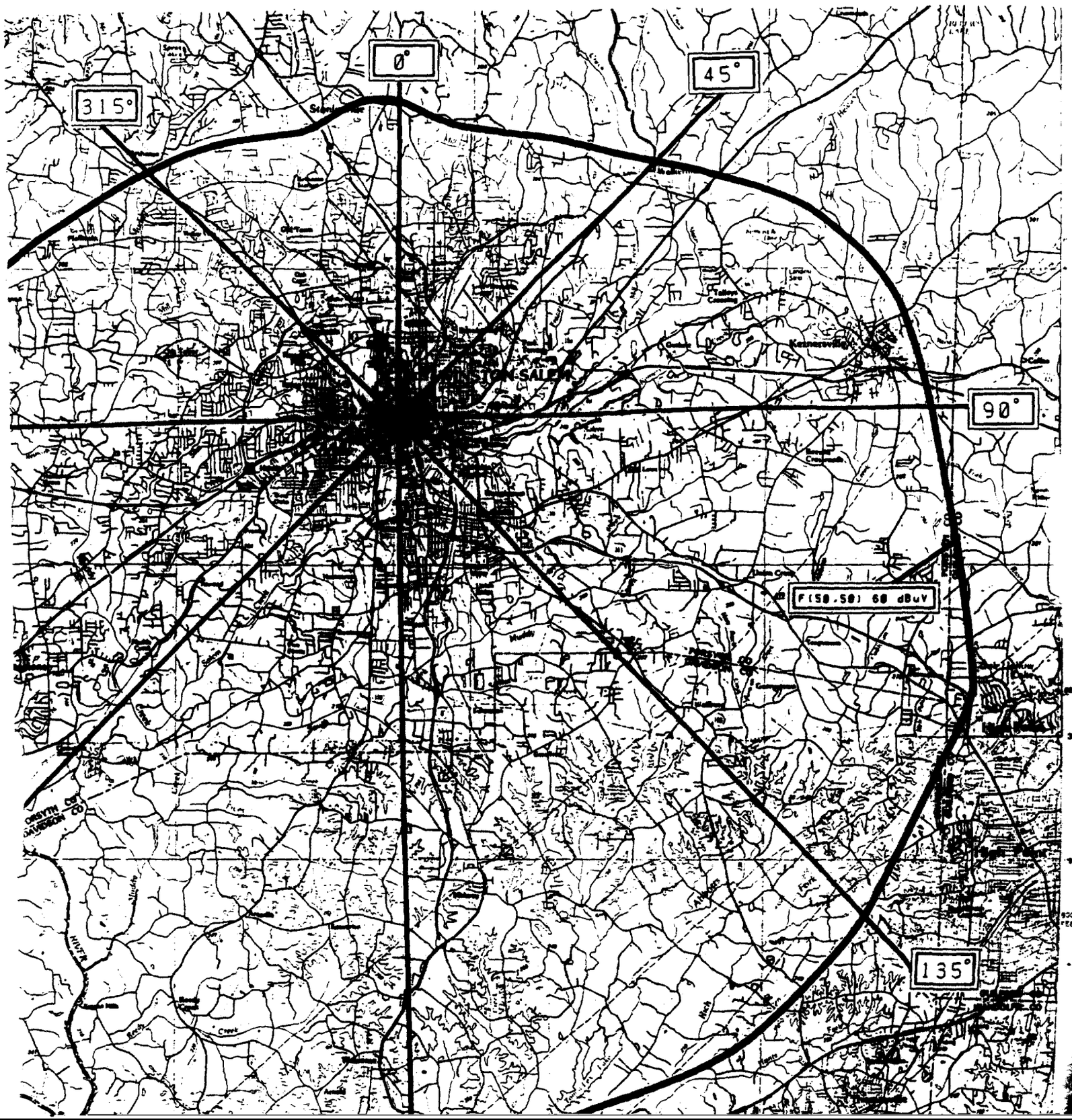
NORTH CAROLINA-FORSYTH CO.

7.5 MINUTE SERIES (TOPOGRAPHIC)

4956 II NW
(WALKERTOWN)




.081


0°
45°
315°
90°
135°
F(50,50) 60 dBuV

Mr. David Anthony
Concord, North Carolina

June 20, 1993

HAAT and ERP values for study site

Title: Triad Family Network
ERP: 2.5 kW
HAMSL: 388.0 m
Latitude: 36-05-56
Longitude: 80-15-00
User-defined directional antenna pattern

Az. deg	HAAT (m)	Rel fld	ERP (kW)	Az. deg	HAAT (m)	Rel fld	ERP (kW)	Az. deg	HAAT (m)	Rel fld	ERP (kW)	Az. deg	HAAT (m)	Rel fld	ERP (kW)
0	118	.178	.079	45	108	.26	.169	90	120	.502	.631	135	127	.796	1.58
1	118	.178	.079	46	109	.265	.175	91	120	.509	.646	136	129	.796	1.58
2	118	.178	.079	47	110	.269	.181	92	119	.515	.662	137	130	.796	1.58
3	118	.178	.079	48	110	.274	.187	93	119	.521	.678	138	132	.796	1.58
4	117	.178	.079	49	110	.278	.193	94	118	.527	.694	139	132	.796	1.58
5	117	.178	.079	50	110	.283	.2	95	117	.533	.71	140	132	.796	1.58
6	117	.178	.079	51	111	.29	.21	96	117	.539	.727	141	132	.796	1.58
7	116	.178	.079	52	111	.297	.221	97	117	.545	.743	142	131	.796	1.58
8	113	.178	.079	53	112	.304	.232	98	118	.551	.76	143	131	.796	1.58
9	111	.178	.079	54	112	.312	.243	99	118	.558	.777	144	131	.796	1.58
10	110	.178	.079	55	113	.319	.255	100	118	.564	.794	145	131	.796	1.58
11	109	.179	.08	56	114	.326	.266	101	119	.571	.814	146	132	.796	1.58
12	108	.18	.081	57	115	.334	.278	102	119	.577	.834	147	133	.796	1.58
13	106	.181	.082	58	115	.341	.291	103	119	.584	.854	148	135	.796	1.58
14	104	.182	.083	59	116	.348	.303	104	120	.591	.874	149	136	.796	1.58
15	102	.184	.084	60	116	.356	.316	105	120	.598	.894	150	137	.796	1.58
16	101	.185	.085	61	116	.365	.333	106	120	.605	.915	151	136	.796	1.58
17	101	.186	.086	62	117	.374	.35	107	119	.612	.936	152	137	.796	1.58
18	103	.187	.087	63	117	.383	.367	108	119	.619	.957	153	137	.796	1.58
19	106	.188	.088	64	118	.392	.385	109	119	.626	.978	154	136	.796	1.58
20	109	.189	.089	65	119	.402	.403	110	119	.632	1	155	136	.796	1.58
21	111	.191	.091	66	120	.411	.422	111	120	.64	1.02	156	136	.796	1.58
22	112	.193	.094	67	120	.42	.441	112	121	.648	1.05	157	136	.796	1.58
23	113	.196	.096	68	119	.429	.461	113	122	.656	1.07	158	136	.796	1.58
24	114	.198	.098	69	119	.439	.481	114	123	.663	1.1	159	136	.796	1.58
25	113	.2	.1	70	118	.448	.501	115	123	.671	1.13	160	137	.796	1.58
26	112	.203	.103	71	117	.453	.513	116	123	.679	1.15	161	137	.796	1.58
27	111	.205	.105	72	116	.459	.526	117	123	.686	1.18	162	136	.796	1.58
28	109	.207	.107	73	116	.464	.539	118	123	.694	1.2	163	136	.796	1.58
29	108	.21	.11	74	116	.47	.551	119	123	.702	1.23	164	137	.796	1.58
30	108	.212	.112	75	116	.475	.564	120	123	.71	1.26	165	138	.796	1.58
31	108	.214	.115	76	117	.481	.577	121	124	.718	1.29	166	138	.796	1.58
32	108	.217	.118	77	117	.486	.59	122	124	.727	1.32	167	137	.796	1.58
33	108	.22	.121	78	118	.491	.604	123	124	.736	1.35	168	137	.796	1.58
34	108	.222	.123	79	117	.497	.617	124	124	.744	1.38	169	137	.796	1.58
35	107	.225	.126	80	117	.502	.631	125	124	.753	1.42	170	138	.796	1.58
36	107	.227	.129	81	117	.502	.631	126	124	.762	1.45	171	138	.806	1.62
37	107	.23	.132	82	118	.502	.631	127	125	.77	1.48	172	138	.816	1.66
38	107	.233	.135	83	119	.502	.631	128	125	.779	1.52	173	138	.825	1.7
39	107	.235	.138	84	119	.502	.631	129	125	.788	1.55	174	138	.835	1.74
40	105	.238	.141	85	120	.502	.631	130	125	.796	1.58	175	139	.845	1.78
41	104	.242	.147	86	120	.502	.631	131	125	.796	1.58	176	141	.855	1.83
42	104	.247	.152	87	120	.502	.631	132	125	.796	1.58	177	142	.864	1.87
43	105	.251	.158	88	120	.502	.631	133	125	.796	1.58	178	141	.874	1.91
44	106	.256	.163	89	120	.502	.631	134	126	.796	1.58	179	141	.884	1.95

HAAT and ERP values for study site

Title: Triad Family Network
ERP: 2.5 kW

HAMSL: 388.0 m

Latitude: 36-05-56
Longitude: 80-15-00

User-defined directional antenna pattern

Az. deg	HAAT (m)	Rel fld	ERP (kW)	Az. deg	HAAT (m)	Rel fld	ERP (kW)	Az. deg	HAAT (m)	Rel fld	ERP (kW)	Az. deg	HAAT (m)	Rel fld	ERP (kW)
180	140	.893	2	225	151	1	2.51	270	135	.448	.501	315	132	.2	.1
181	141	.904	2.04	226	150	1	2.51	271	135	.439	.481	316	132	.198	.098
182	141	.915	2.09	227	150	1	2.51	272	135	.429	.461	317	132	.196	.096
183	142	.926	2.14	228	149	1	2.51	273	136	.42	.441	318	130	.193	.094
184	143	.937	2.19	229	149	1	2.51	274	136	.411	.422	319	129	.191	.091
185	143	.948	2.25	230	149	1	2.51	275	137	.402	.403	320	128	.189	.089
186	144	.959	2.3	231	149	.991	2.46	276	138	.392	.385	321	127	.188	.088